



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Safeguard Building Systems, LLC
2960 Woodbridge Avenue
Edison, NJ 08837

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: FRO / MAR Composite Wall Panel System

APPROVAL DOCUMENT: Drawing No. SSBP0001, titled "Impact Fro/Mar Composite Structural Wall Panel System", sheets 1 through 7 of 7, dated 01/07/09, with revision "C" dated 02/23/10, prepared by PTC, LLC, signed and sealed by Robert J. Amoruso, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each panel shall bear one of the following permanent labels:

Safeguard Building Systems, LLC
2960 Woodbridge Avenue
Edison, NJ 08837

Safeguard Building Systems, LLC
53 W.L. Runnels Industrial Dr.
Hattiesburg, MS 39401

and the statement: "Miami-Dade County Product Control Approved".

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Signature]
03/09/10

NOA No. 08-1219.02
Expiration Date: March 31, 2015
Approval Date: March 31, 2010
Page 1

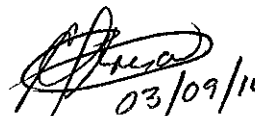
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **SSBP0001**, titled "Impact Fro/Mar Composite Structural Wall Panel System", sheets 1 through 7 of 7, dated 01/07/09, with revision "C" dated 02/23/10, prepared by PTC, LLC, signed and sealed by Robert J. Amoruso, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of FRO / MAR Steel Wall Panel System, prepared by Certified Testing Laboratories, Test Report No. **CTLA 1697W**, dated 12/13/07, signed and sealed by Ramesh Patel, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of FRO / MAR Steel Wall Panel System with Window Opening, prepared by Certified Testing Laboratories, Test Report No. **CTLA 1697W-1**, dated 12/13/07, signed and sealed by Ramesh Patel, P.E.
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of FRO / MAR Steel Wall Panel System with Door Opening, prepared by Certified Testing Laboratories, Test Report No. **CTLA 1697W-2**, dated 12/13/07, signed and sealed by Ramesh Patel, P.E.
4. Test report on Panels Racking Loading of FRO / MAR Steel Wall Panel System per ASTM E72-98, prepared by Certified Testing Laboratories, Test Report No. **CTLA1697W-3**, dated 12/04/08, signed and sealed by Ramesh Patel, P.E.
5. Test report on Panels Compressive Loading per ASTM E72 and Material Tensile Loading per ASTM E8, of FRO / MAR Steel Wall Panel System, prepared by Architectural Testing, Inc., Report No. **83797.01-119-16**, dated 09/24/08, signed by Joseph A. Reed, P.E.



03/09/10

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-1219.02

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B. TESTS (Cont.)

6. Test report on Panels Tensile Loading per ASTM E72 and Material Tensile Loading ASTM E8, of FRO / MAR Steel Wall Panel System, prepared by Architectural Testing, Inc., Report No. **94061.01-119-18**, dated 11/25/09, signed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Structural Steel Shear Wall Component Qualifications, Report No. 1224, Revision No. 2, pages 1 through 13 of 13, dated 02/02/10, prepared by PTC, LLC, signed and sealed by Robert J. Amoruso, P.E.

D. QUALITY ASSURANCE

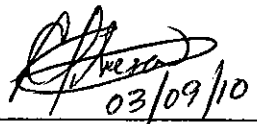
1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

1. Listing report on Surface Burning Characteristics of the EPS Insulation Boards per ASTM E84-05, prepared by Radco, Listing # **1182**.

F. STATEMENTS

1. Statement letter of code compliance and no financial interest, prepared by PTC, LLC, dated 12/17/08, signed and sealed by Paul Winter, P.E.
2. Statement letter of code compliance, prepared by Architectural Testing Inc, for Test Report No. **83797.01-119-16**, dated 10/09/08, signed and sealed by Joseph A. Reed, P.E.
3. Statement letter of code compliance, prepared by Architectural Testing Inc, for Test Report No. **94061.01-119-18**, dated 11/23/09, signed and sealed by Joseph A. Reed, P.E.



03/09/10

Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 08-1219.02

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SAFEGUARD BUILDING SYSTEMS

IMPACT FRO / MAR COMPOSITE STRUCTURAL WALL PANEL SYSTEM

PRODUCT EVALUATION REPORT CRITERIA

1. THIS PRODUCT EVALUATION DOCUMENT REPRESENTS A COMPOSITE STRUCTURAL WALL PANEL SYSTEM DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC), 2007.
2. WHEN THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM IS UTILIZED IN ACCORDANCE WITH THIS PRODUCT EVALUATION DOCUMENT, IT COMPLIES WITH THE REQUIREMENTS OF THE FBC 2007 FOR CONSTRUCTION IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
3. THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM DESCRIBED IN THIS PRODUCT EVALUATION DOCUMENT MEETS THE LARGE MISSILE IMPACT CRITERIA OF THE FBC, 2007.
4. THIS PRODUCT EVALUATION DOCUMENT COMPLIES WITH CHAPTER 61G15-36 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
5. ANY MODIFICATIONS OR ADDITIONS TO THIS PRODUCT EVALUATION DOCUMENT WILL VOID THIS PRODUCT EVALUATION DOCUMENT.
6. THIS COMPOSITE STRUCTURAL WALL PANEL SYSTEM HAS NOT BEEN TESTED FOR AIR AND WATER INFILTRATION. AIR AND WATER INFILTRATION SHALL BE ADDRESSED IN SITE SPECIFIC APPLICATIONS WITH BUILDING CODE APPROVED FINISHES.
7. THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM SHALL BE PERMANENTLY LABELED IN A VISIBLE MANNER, AS FOLLOWS: FRO-MAR COMPOSITE STRUCTURAL WALL PANEL SYSTEM, MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

DESIGN RESPONSIBILITIES

8. THIS PRODUCT EVALUATION DOCUMENT WAS PREPARED BY THE PRODUCT MANUFACTURER AND IS GENERIC. IT DOES NOT INCLUDE INFORMATION PREPARED FOR OR APPLICABLE TO A SPECIFIC PROJECT OR SITE.
9. THIS PRODUCT EVALUATION DOCUMENT IS ONLY FOR USE BY A LICENSED PROFESSIONAL ENGINEER OR AN ARCHITECT ACTING AS A DELEGATED ENGINEER IN ACCORDANCE WITH THE FAC, CHAPTER 61G15-36.003(3). THE DELEGATED ENGINEER SHALL NOT BE REQUIRED TO SUBMIT DELEGATED ENGINEERING DOCUMENTS TO THE PRODUCT MANUFACTURER AS THE DELEGATED ENGINEER IS WHOLLY RESPONSIBLE FOR THE SPECIFIC USE OF THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM. THE DELEGATED ENGINEER SHALL BE THE ENGINEER OF RECORD FOR ANY APPLICATION OF THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM.
10. WHERE AN ARCHITECT OR REGISTERED PROFESSIONAL ENGINEER ELECTS TO UTILIZE THIS SYSTEM AS A COMPONENT IN HIS (HER) CAPACITY AS ENGINEER OF RECORD, THEN HIS (HER) ROLE IN SPECIFYING THIS SYSTEM SHALL HAVE THE SAME RESPONSIBILITY AS A DELEGATED ENGINEER IN ACCORDANCE WITH FAC, CHAPTER 61G15-31.001.
11. THE ENGINEER OF RECORD IS RESPONSIBLE FOR SPECIFYING ALL LOAD CRITERIA, INCLUDING ALL DEAD LOADS, LIVE LOADS, WIND LOADS, SEISMIC LOADS, SNOW LOADS AND ANY OTHER LOAD CRITERIA APPLICABLE TO THE PROJECT AND THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM.
12. THE DESIGN OF CONNECTIONS AT THE TOP AND BOTTOM OF THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM TO SUPPORTING ELEMENTS SHALL BE THE RESPONSIBILITY OF THE DELEGATED ENGINEER.
13. THE DELEGATED ENGINEER IS RESPONSIBLE FOR THE DESIGN OF ADDITIONAL STRUCTURAL MEMBERS, INCLUDING HEADERS, JAMBS AND SILLS REQUIRED AT ALL WALL PENETRATIONS.
14. THE DELEGATED ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE WALL PANELS USED TO RESIST LATERAL (RACKING) LOADS.

COMPOSITE STRUCTURAL WALL PANEL SYSTEM DESIGN CRITERIA

15. THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM IS DESIGNED TO BE INSTALLED AS AN EXTERIOR LOAD BEARING WALL, AN INTERIOR LOAD BEARING WALL OR AS A NON-LOAD BEARING EXTERIOR CURTAIN WALL. THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM IS DESIGNED TO SPAN VERTICALLY AS A SIMPLE SPAN BETWEEN Laterally supported elements at the top and the bottom of the wall system. The elements providing lateral support for the composite structural wall panel system shall be of appropriate materials and shall be designed by the project engineer of record or the delegated engineer, as appropriate, in accordance with the FBC, 2007.
16. THIS PRODUCT EVALUATION DOCUMENT PROVIDES SPECIFIC STRUCTURAL PROPERTIES FOR USE BY A DELEGATED ENGINEER. WHERE STRUCTURAL PROPERTIES ARE NOT ADDRESSED, THE DELEGATED ENGINEER SHALL DESIGN THE ELEMENTS IN ACCORDANCE WITH THE FBC. WHERE COMBINATIONS OF STRUCTURAL PROPERTIES ARE REQUIRED, THE DESIGN PROFESSIONAL SHALL DETERMINE THE APPROPRIATE INTERACTION EQUATIONS FOR THE DESIGN VALUES PRESENTED HEREIN.

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SHEET	REV.	SHEET DESCRIPTION	SHEET	REV.	SHEET DESCRIPTION
1	C	GENERAL NOTES & INSTALLATION NOTES	5	C	HORIZONTAL SECTIONS
2	C	ELEVATION & ANCHOR LAYOUT	6	C	SILL AND HEADER DETAILS, BILL OF MATERIALS
3	C	ELEVATIONS & ANCHOR LAYOUTS	7	A	COMPONENTS
4	C	VERTICAL SECTIONS			

17. THE COMPOSITE STRUCTURAL WALL PANEL SYSTEM DESCRIBED IN THIS PRODUCT EVALUATION DOCUMENT HAS BEEN EVALUATED BY TESTING FOR STRUCTURAL PROPERTIES INCLUDING AXIAL COMPRESSIVE LOADING, AXIAL TENSION LOADING, IN-PLANE SHEAR (RACKING) LOADING, OUT-OF-PLANE FLEXURAL LOADING (UNIFORM TRANSVERSE LOADING) AND LARGE MISSILE IMPACT LOADING. THE RESULTS OF THE TESTING PROGRAM ARE SUMMARIZED IN TABLE 1 AND INCLUDE THE ALLOWABLE LOAD AND A STATEMENT OF THE FACTOR OF SAFETY.
 - a. THE FACTORS OF SAFETY FOR AXIAL COMPRESSIVE LOADING, AXIAL TENSION LOADING, AND IN-PLANE SHEAR (RACKING) LOADING HAVE BEEN DETERMINED IN ACCORDANCE WITH THE AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI/COS/NASPEC 2001.
 - b. THE FACTOR OF SAFETY FOR OUT-OF-PLANE FLEXURAL LOADING (UNIFORM TRANSVERSE LOADING) IS 1.5 BASED ON TESTING IN ACCORDANCE WITH 2007 FBC, TAS 202 AT A STRUCTURAL TEST PRESSURE (STP) OF 1.5 X DESIGN PRESSURE AS ALLOWED BY ASTM E72-05, SECTION 11 OR 12. DEFLECTION AT THE DESIGN PRESSURE DID NOT EXCEED L/480. PERMANENT SET AT STRUCTURAL TEST PRESSURE DID NOT EXCEED 0.4% OF HEIGHT.
18. THE AXIAL COMPRESSIVE LOAD CAPACITY, THE AXIAL TENSILE LOAD CAPACITY, AND THE OUT-OF-PLANE FLEXURAL LOAD CAPACITY (TRANSVERSE LOAD CAPACITY) STATED IN TABLE 1, ASSUMES A UNIFORMLY DISTRIBUTED LOAD. IT IS THE RESPONSIBILITY OF THE DELEGATED ENGINEER TO CONSIDER THE EFFECTS OF ANY CONCENTRATED LOADS AND PROVIDE LOCAL REINFORCEMENT, IF NECESSARY, FOR THE CONCENTRATED LOAD.
19. THE RACKING LOAD CAPACITY ASSUMES A UNIFORMLY APPLIED RACKING LOAD. IT IS THE RESPONSIBILITY OF THE DELEGATED ENGINEER TO CONSIDER THE EFFECTS OF ANY CONCENTRATED RACKING LOADS AND PROVIDE LOCAL REINFORCEMENT, IF NECESSARY, FOR THE CONCENTRATED LOAD.
20. FOR THE PURPOSE OF DETERMINING RACKING RESISTANCE, THE WALL PANEL ELEMENT TO BE EVALUATED SHALL BE CONSIDERED TO BE OF ANY LENGTH BUT SHALL NOT INCLUDE CONSIDERATION OF ELEMENTS CONTAINING WALL PENETRATIONS (WINDOWS OR DOORS) AND SHALL BE NOT LESS THAN THREE SOLID PANELS IN LENGTH. GUSSET PLATES SHALL BE REQUIRED AT EACH END OF ALL WALL PANEL ELEMENTS PROVIDING RACKING RESISTANCE. GUSSET PLATES SHALL BE REQUIRED AT INTERVALS NOT EXCEEDING FIVE SOLID PANELS IN LENGTH OF THE WALL PANEL ELEMENT OR ELEMENTS USED IN DETERMINING RACKING RESISTANCE.
21. ADDITIONAL STRUCTURAL MEMBERS, INCLUDING HEADERS, JAMBS AND SILLS MAY BE REQUIRED AT WALL PENETRATIONS. THEY SHALL BE DESIGNED FOR ALL REQUIRED LOADS.
22. STRUCTURAL DATA HAS BEEN EXTRACTED FROM THE FOLLOWING TEST REPORTS:

ATI 83797.01-119-16 - PANEL COMPRESSION AND TENSILE LOAD TESTS.
ATI 94061.01-119-18 - PANEL TENSION AND MATERIAL TENSILE LOAD TESTS.
CTLA 1697W - STRUCTURAL (WIND LOADS) ON A SOLID PANEL ASSEMBLY.
CTLA 1697W-1 - STRUCTURAL (WIND LOADS) ON A PANEL ASSEMBLY CONTAINING A WINDOW
CTLA 1697W-2 - STRUCTURAL (WIND LOADS) ON A PANEL ASSEMBLY CONTAINING A DOOR.
CTLA 1697W-3 - RACKING LOAD ON A SOLID PANEL ASSEMBLY.

Table 2 - Sheet Metal Screw Specification
See Bill of Materials for specific applications.

- Screw Type: Self Drilling/Self-Tapping
- Head Type: Phillips Pan Head, Hex Head or Hex Washer Head
- Size: No. 8 or No. 10.
- Length: 3/4" min. for No. 8, 5/8" min. for No. 10 HWH and 3/4" min. for No. 10 HH.
- Material: Hardened Steel - Corrosion Resistant Coating required.
- Meets/Exceeds: ANSI/ASME B18.6.4

COMPOSITE STRUCTURAL WALL PANEL SYSTEM MATERIALS

23. ALL STEEL STRUCTURAL COMPONENTS (SKIN / STUD COMBINATIONS, TOP AND BOTTOM TRACKS, JACK STUDS, HEAD AND KNEE STUDS, SILL AND HEADER STIFFENER, ETC.) SHALL BE ASTM A653, GRADE 40 (47.0KSI MINIMUM YIELD STRENGTH) AND SHALL HAVE A G60 GALVANIZED COATING.
24. ALL ANCILLARY STEEL PARTS (GUSSET PLATES, CLIP ANGLES, FLAT STRAP BRACING, HEADER COVER PLATE, ETC.) SHALL BE ASTM A653, GRADE 30 (33.0KSI MINIMUM YIELD STRENGTH) AND SHALL HAVE A G60 GALVANIZED COATING.

Table 1 - Design Criteria

Design Parameter	Ultimate Load	Allowable Load (Ultimate/SF)	Safety Factor (SF)
Compressive Load (lbs/ft)	7734	3966	1.95
Tension Load (lbs/ft)	1419	727	1.95
Racking Load (lbs/ft)	1296	648	2
Transverse Load (psf)	+67.5 / -94.5	+45 / -63	See Note 17.b.
Large Missile Impact Rating	Tested to TAS 201 & TAS 203, Large Missile Impact Requirements at +45 / -63 Design Pressure.		

SAFEGUARD BUILDING SYSTEMS
2960 WOODBRIDGE AVENUE
EDISON, NJ 08837

TITLE: IMPACT FRO / MAR COMPOSITE STRUCTURAL WALL PANEL SYS
GENERAL AND INSTALLATION NOTES

PREPARED BY: FFE

DATE: 01/07/09

DRAWN BY: SMC

SCALE: N.T.S.

SHEET: SSBP0001

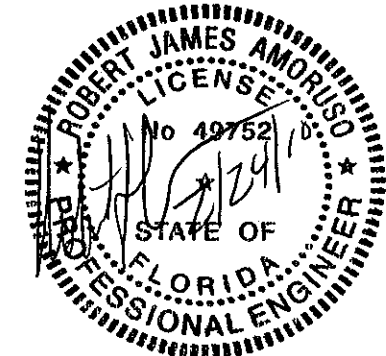
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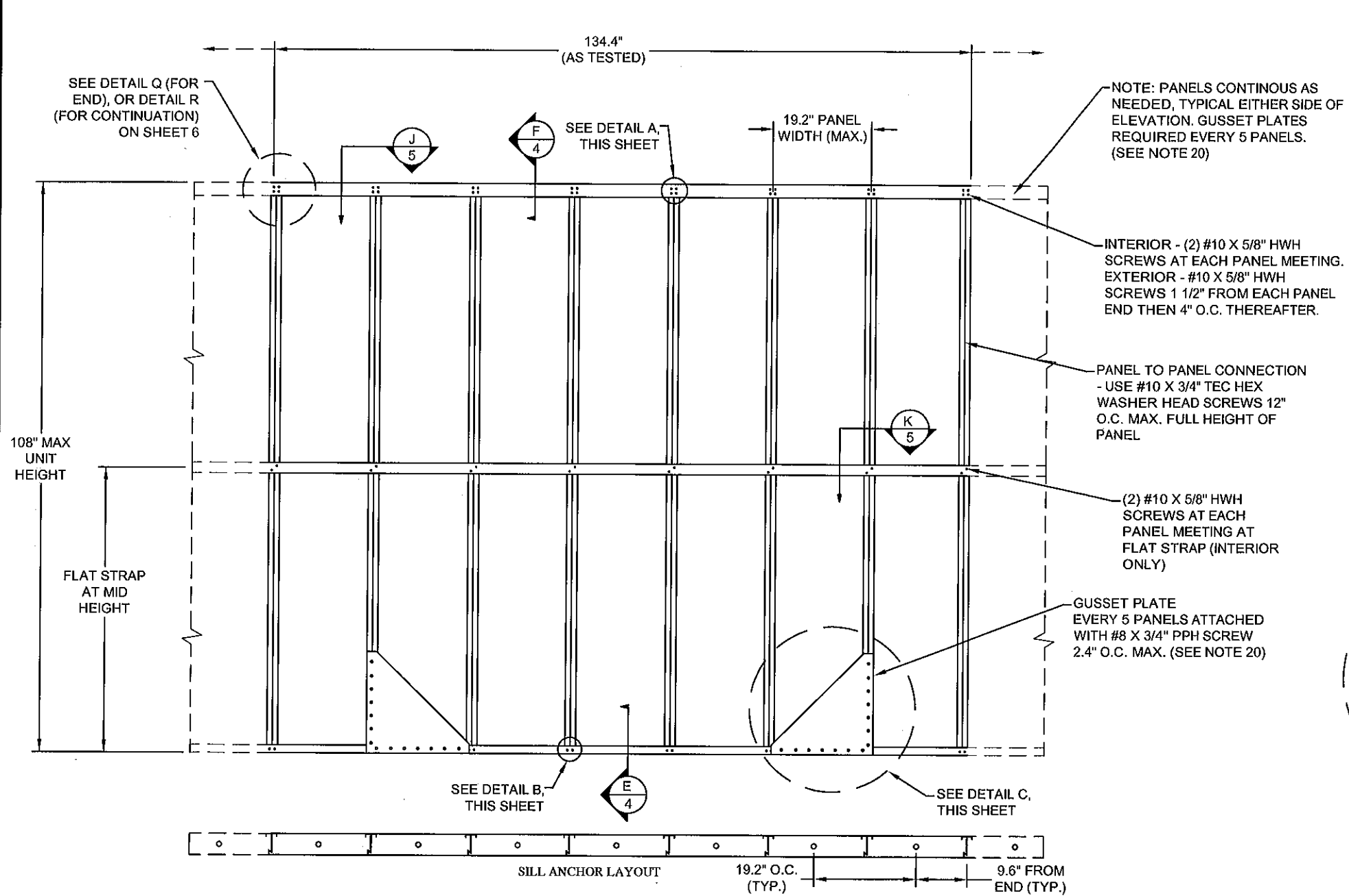
1 OF 7

PTC, LLC
1535 N. Cogswell Street, Suite C25
Rockledge, Florida 32955
Phone: 321.660.1788
Fax: 321.660.1789
Email: info@ptc-usa.com

Approved as complying with the
Florida Building Code
Date: 03/31/2010
NOA# 08-1219-02
Miami Dade Product Control
Division
By: [Signature]

Robert J. Amoroso, P.E.
Florida P.E. No. 49752





ELEVATION & ANCHOR LAYOUT
INTERIOR VIEW

INTERIOR - (4) #10 X 5/8" HWH
SCREWS AT EACH PANEL MEETING.
EXTERIOR - #10 X 5/8" HWH
SCREWS 1 1/2" FROM EACH PANEL
END THEN 4" O.C. THEREAFTER.

DETAIL A
INTERIOR VIEW
TOP TRACK

INTERIOR - (2) #10 X 5/8" HWH
SCREWS AT EACH PANEL MEETING.
EXTERIOR - #10 X 5/8" HWH
SCREWS 1 1/2" FROM EACH PANEL
END THEN 4" O.C. THEREAFTER.

DETAIL B
INTERIOR VIEW
BOTTOM TRACK

GUSSET PLATE
EVERY 5 PANELS ATTACHED
WITH #8 X 3/4" PPH SCREW
2.4" O.C. MAX. (SEE NOTE 20)

2.4" O.C.
(TYP.)

2.4" FROM
END (TYP.)

DETAIL C
INTERIOR VIEW
GUSSETT PLATE

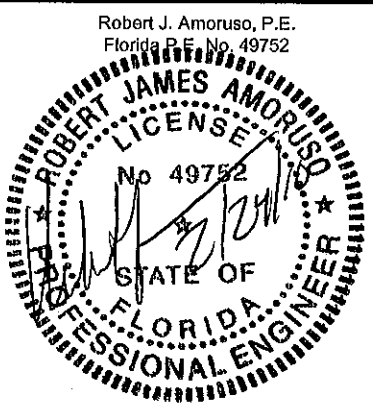
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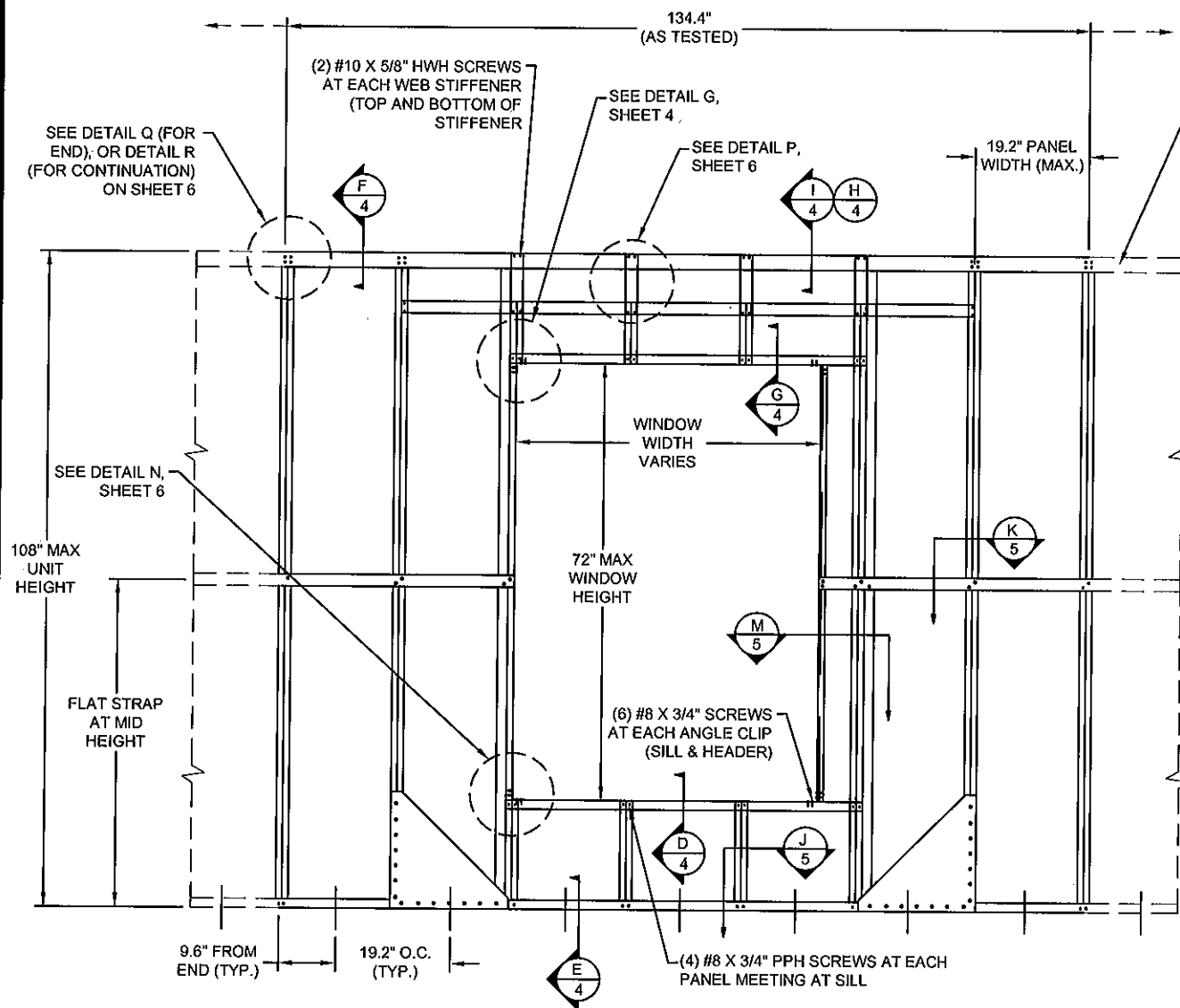
SAFEGUARD BUILDING SYSTEMS
2960 WOODBRIDGE AVENUE
EDISON, NJ 08837

TITLE: IMPACT FRO / MAR COMPOSITE STRUCTURAL WALL PANEL SYS
ELEVATION & ANCHOR LAYOUT

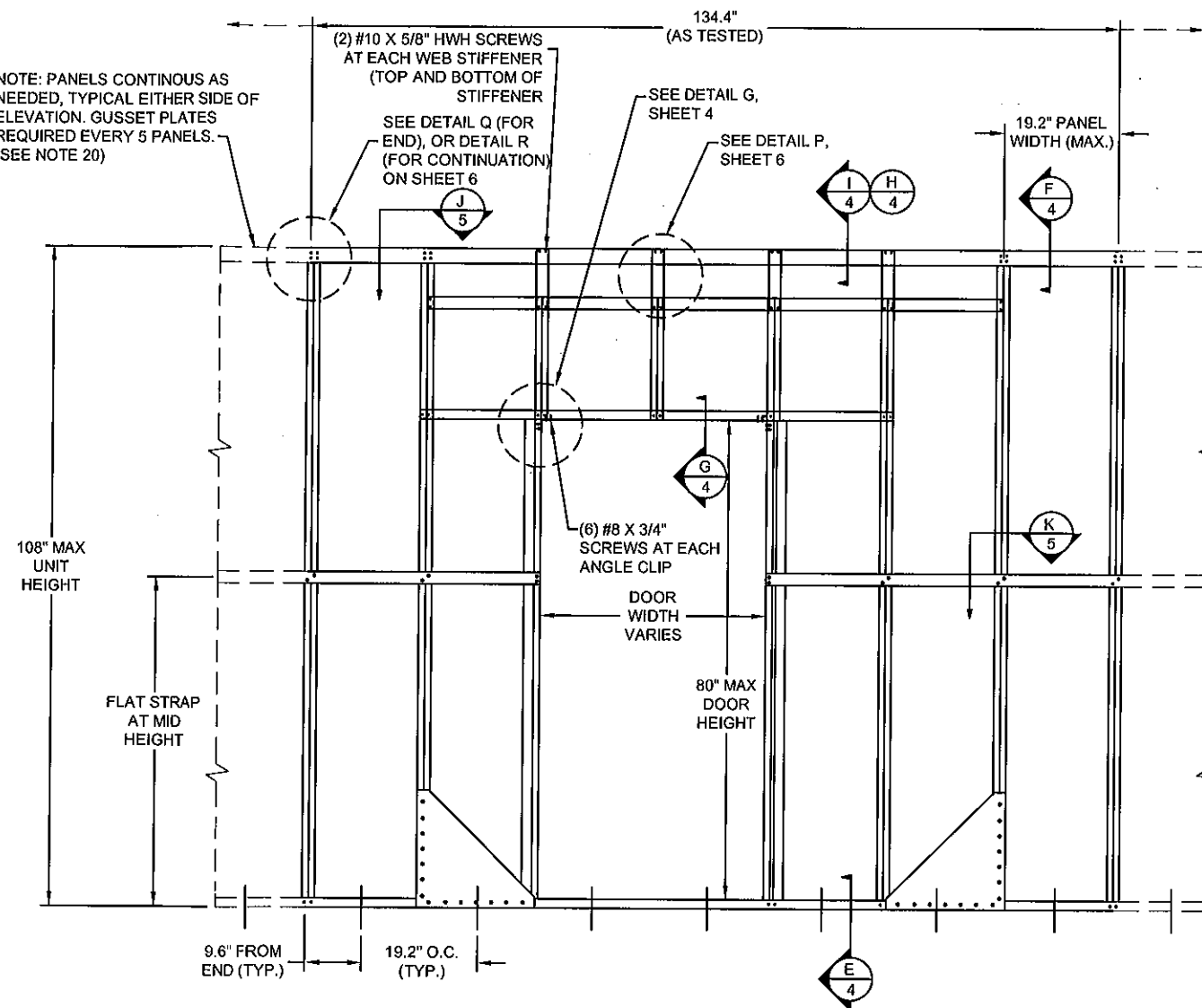
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DRAWN BY:	SMC	SCALE:	N.T.S.	REV:	C
PREPARED BY:	PTC, LLC	1655 N. Osgood Street, Suite C25 Rochester, Florida 32655 Email: info@ptc-usa.com PBE CA NO. 25585			

Approved as complying with the
Florida Building Code
Date 03/31/2010
NOAH 08-1217.02
Miami Dade Product Control
Division
By *[Signature]*





ELEVATION & ANCHOR LAYOUT
INTERIOR VIEW



ELEVATION & ANCHOR LAYOUT
INTERIOR VIEW

SAFEGUARD BUILDING SYSTEMS
2960 WOODBRIDGE AVENUE
EDISON, NJ 08837

TITLE: IMPACT PRO / MAR COMPOSITE STRUCTURAL WALL PANEL SYS ELEVATIONS & ANCHOR LAYOUTS

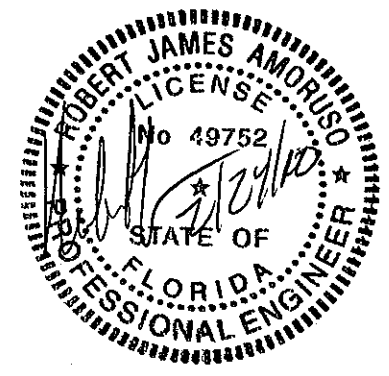
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SCALE: N.T.S.
DATE: 01/07/09
DRAWING NO.: SSBP0001
REV: C
SHEET: 3 OF 7

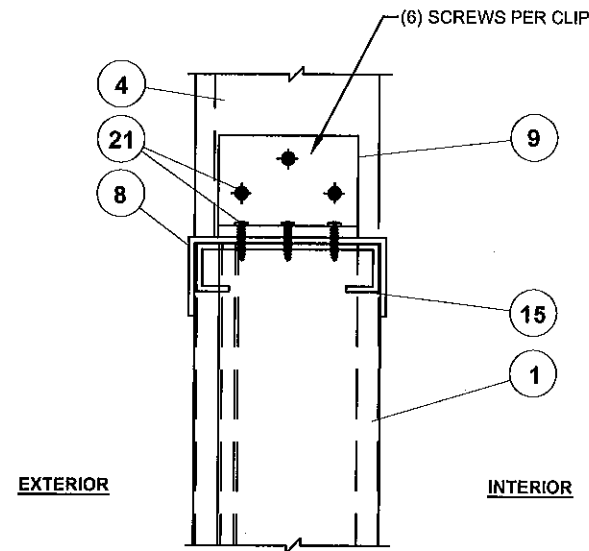
PROJECT #307-1106.23

REV	DESCRIPTION	DATE	BY
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A	PER MIAMI-DADE COMMENTS 1/21/09	02/16/09	SC

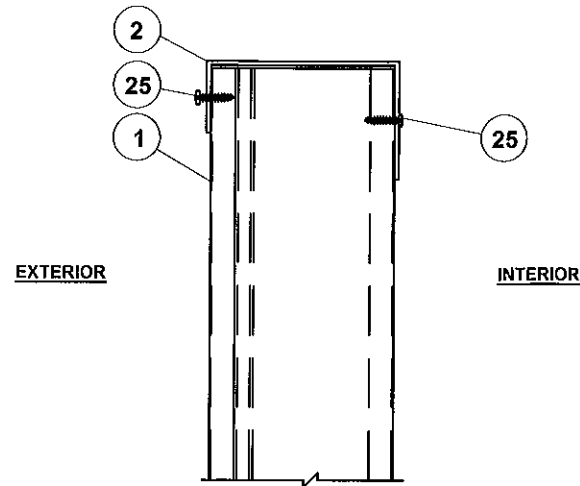
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Miami Dade Product Control Division
By *[Signature]*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

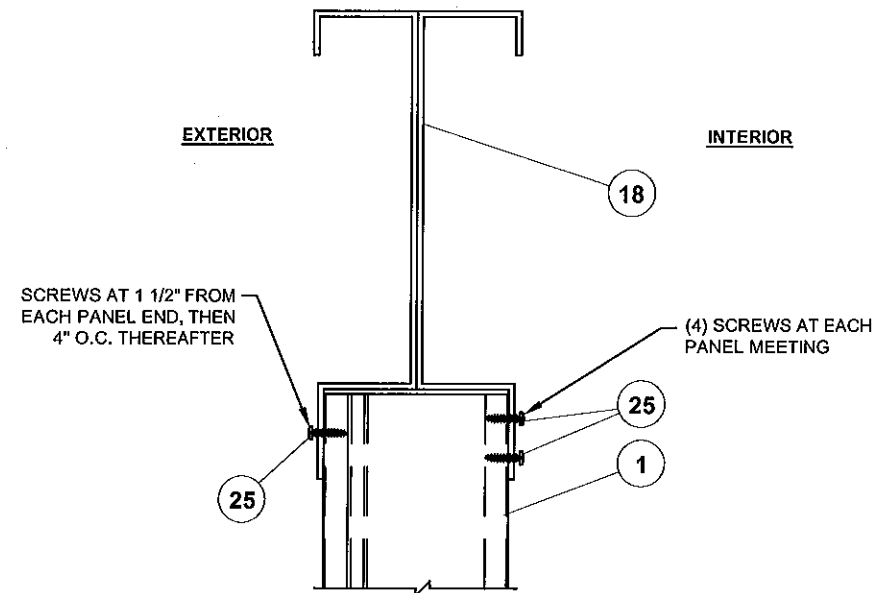




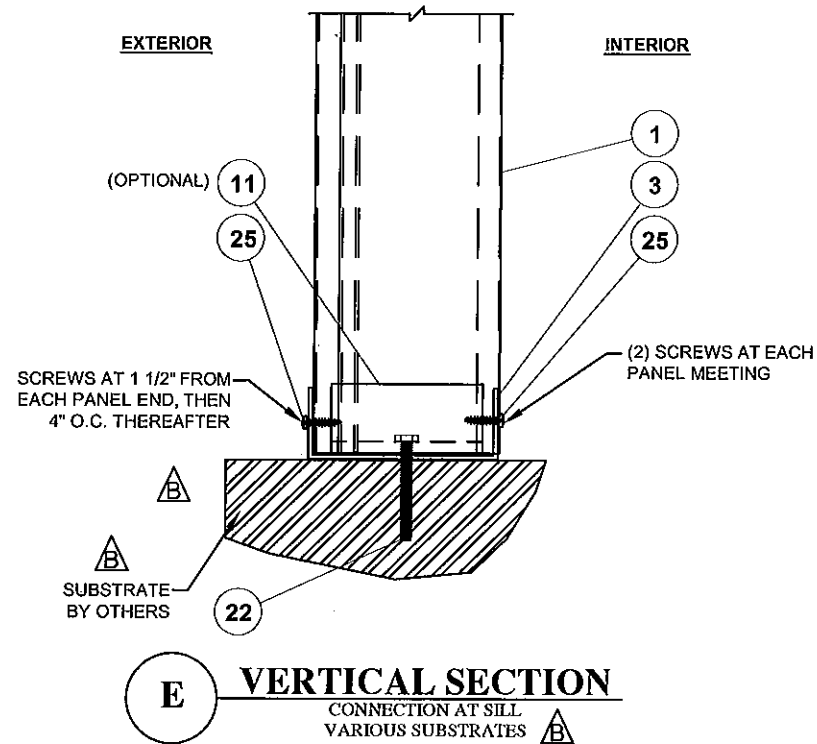
D VERTICAL SECTION
AT WINDOW SILL



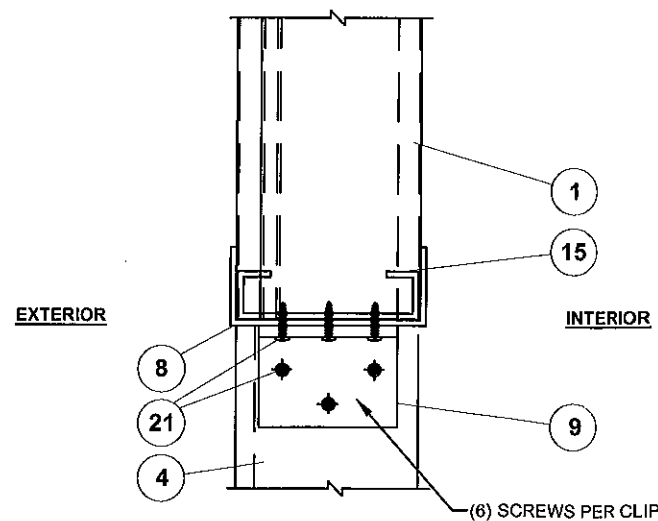
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PANEL AT TOP TRACK



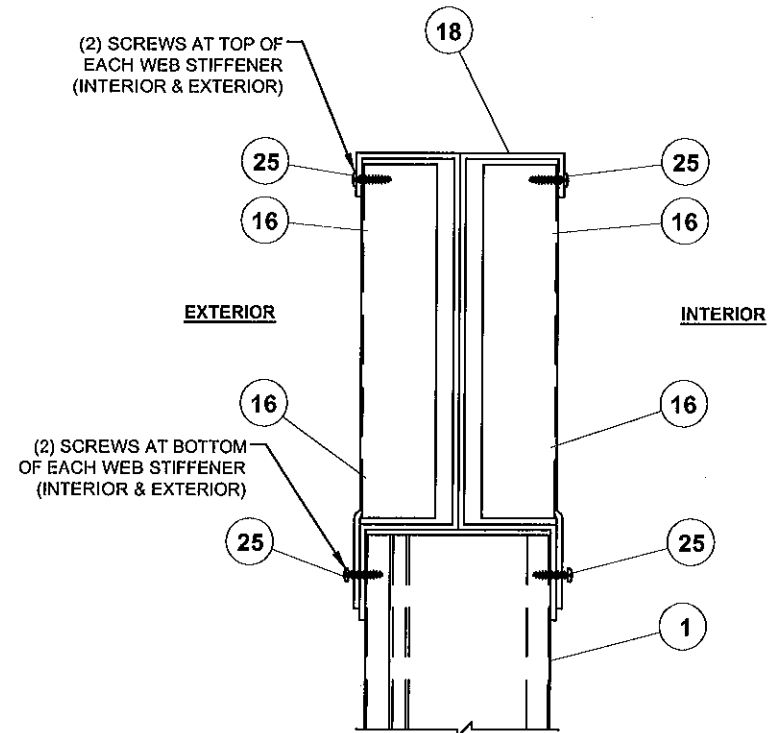
H VERTICAL SECTION
HEADER BETWEEN WEB STIFFENERS



E VERTICAL SECTION
CONNECTION AT SILL
VARIOUS SUBSTRATES



G VERTICAL SECTION
WINDOW OR DOOR HEADER



I VERTICAL SECTION
HEADER AT WEB STIFFENERS

PROJECT #307-1106.23

REV	DESCRIPTION	DATE	BY
C	PER MIAMI-DADE COMMENTS 02/17/10	02/23/10	SC
B	PER MIAMI-DADE COMMENTS 03/18/09	12/30/09	SC
A	PER MIAMI-DADE COMMENTS 1/21/09	02/16/09	SC

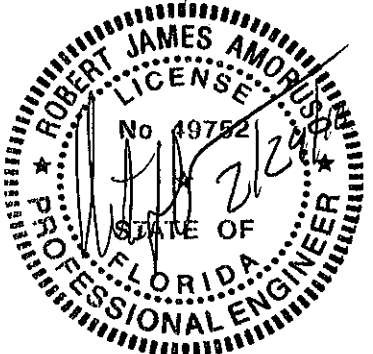
SAFEGUARD BUILDING SYSTEMS
2960 WOODBRIDGE AVENUE
EDISON, N.J. 08837

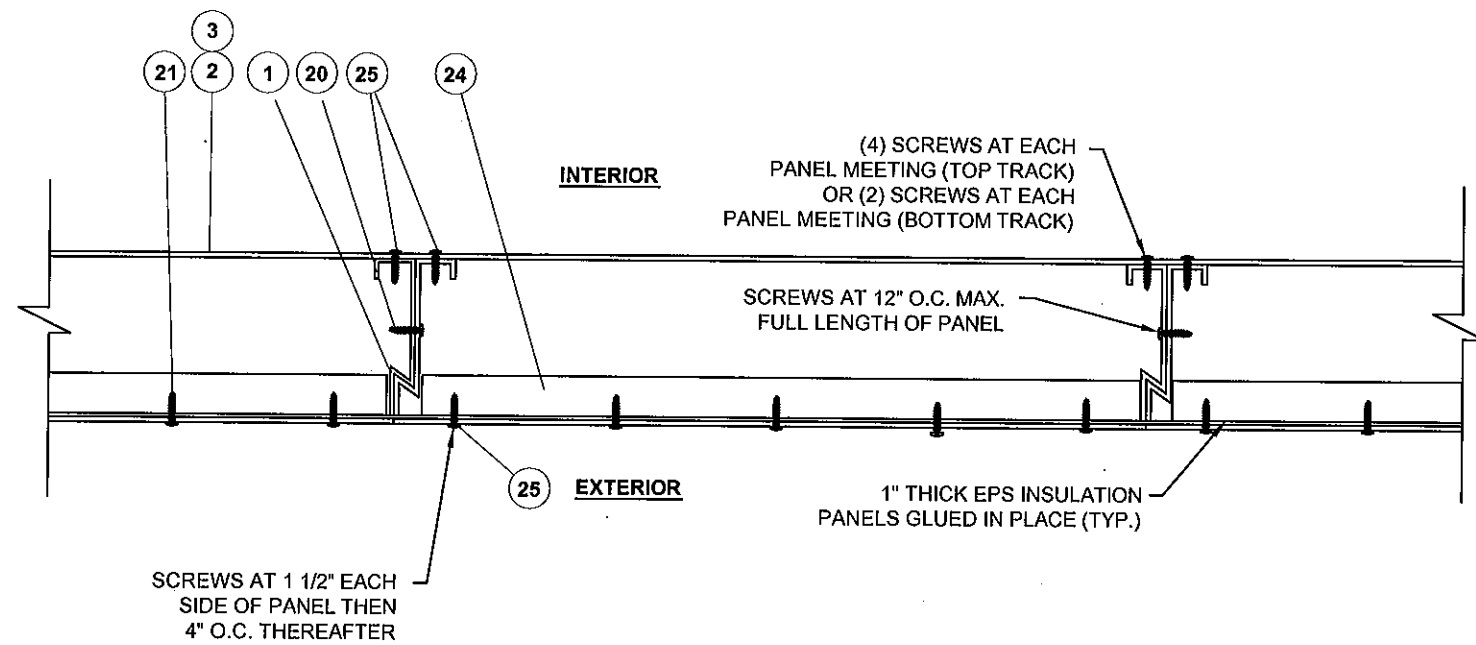
TITLE IMPACT FRO / MAR COMPOSITE STRUCTURAL WALL PANEL SYS
VERTICAL SECTIONS

PREPARED BY: FFE
DATE: 01/07/09
SCALE: N.T.S.
DRAWING NO: SSBP0001
REV: C
SHEET: 4 OF 7

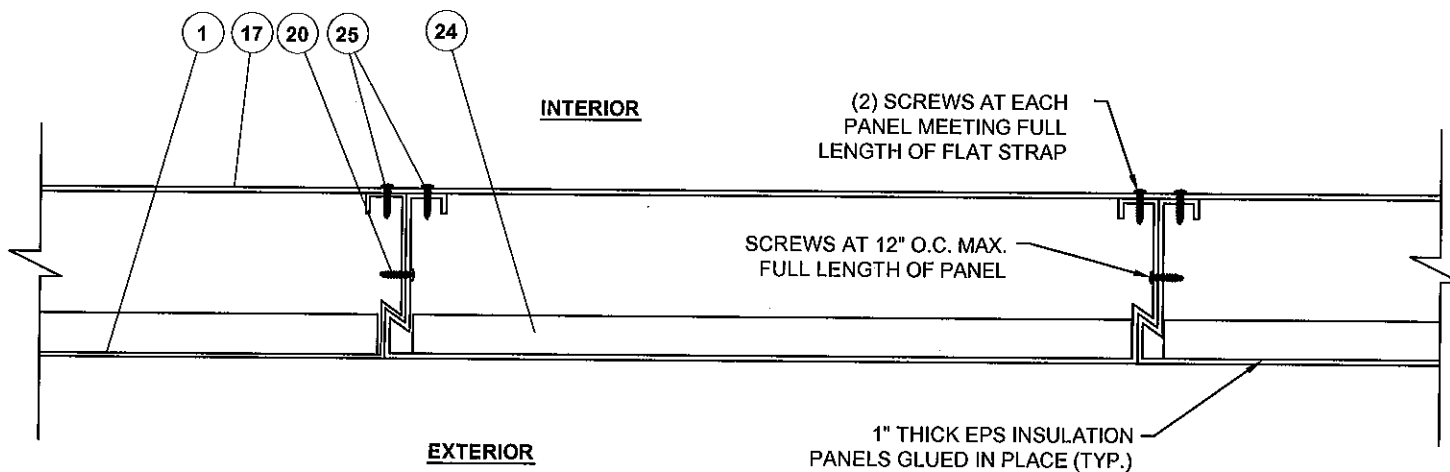
Approved as complying with the
Florida Building Code
Date 03/31/2010
NOA# 08-1219-02
Miami Dade Product Control
Division
By

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

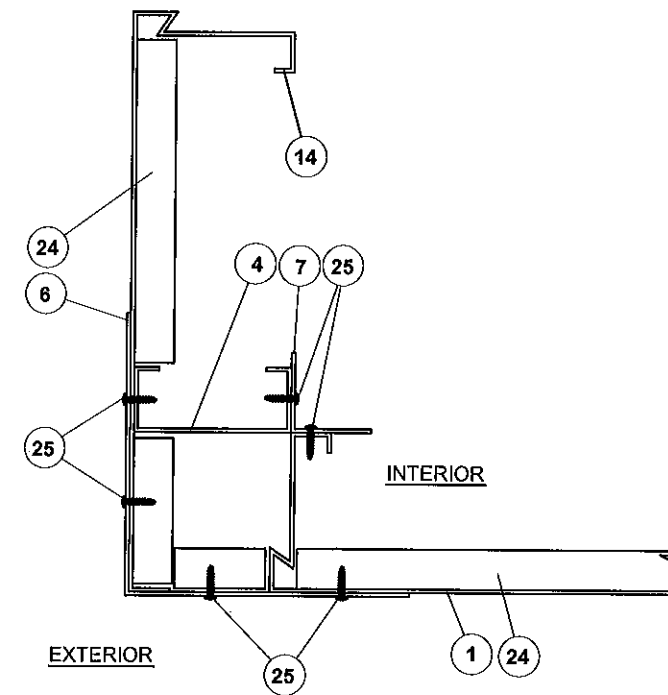




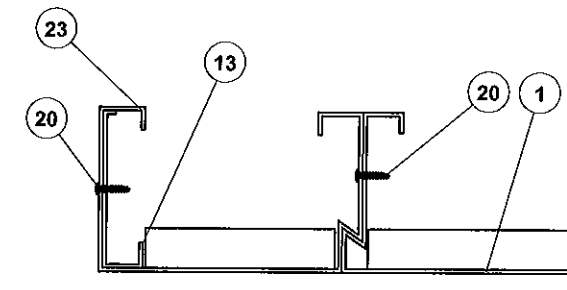
J HORIZONTAL SECTION
PANELS AT TOP AND BOTTOM TRACK



K HORIZONTAL SECTION
PANELS AT FLAT STRAP



L HORIZONTAL SECTION
CORNER CONNECTION



M HORIZONTAL SECTION
PANELS AT JAMB SUPPORT

PROJECT #307-1106.23

SAFEGUARD BUILDING SYSTEMS
2960 WOODBRIDGE AVENUE
EDISON, NJ 08837

TITLE: IMPACT PRO / MAR COMPOSITE STRUCTURAL WALL PANEL SYS
HORIZONTAL SECTIONS

PREPARED BY: PTC, LLC
DATE: 01/07/09
DRAWING NO.: SSBP0001
SCALE: N.T.S.
REV: C
SHEET: 5 OF 7

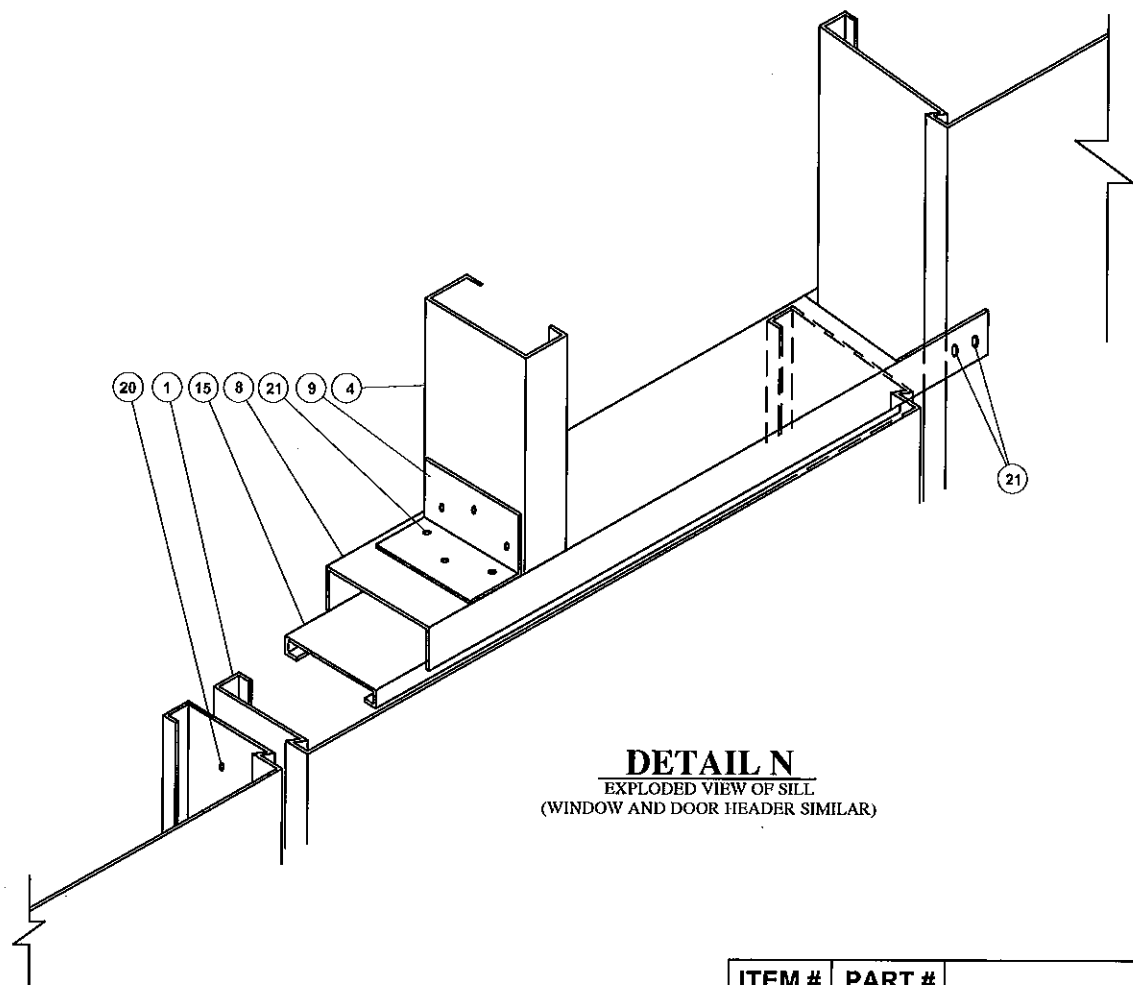
1535 N. Cogswell Street, Suite C25
Rockledge, Florida 32955
Phone: 321.860.1788
Fax: 321.860.1789
Email: info@ptc-corp.com

REV	DESCRIPTION	DATE	BY
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A	PER MIAMI-DADE COMMENTS 1/21/09	02/16/09	SC

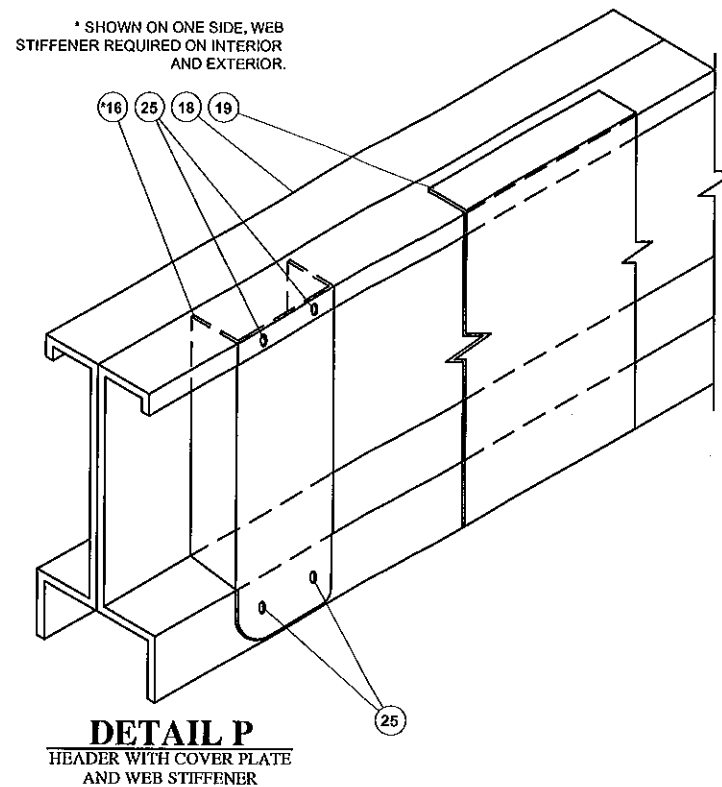
Approved as complying with the
Florida Building Code
Date 03/31/2010
NOA# 08-1219.02
Miami Dade Product Control
Division
By *[Signature]*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

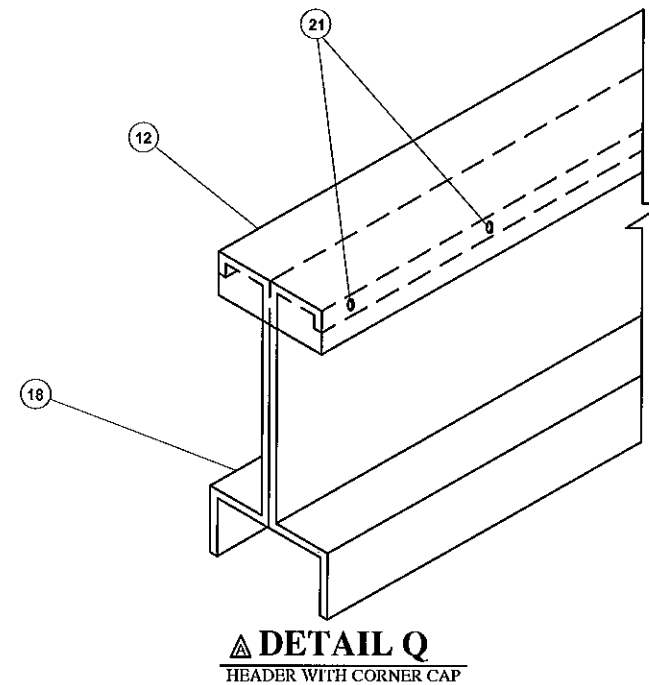
ROBERT JAMES AMOROSO
LICENSE
No. 49752
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



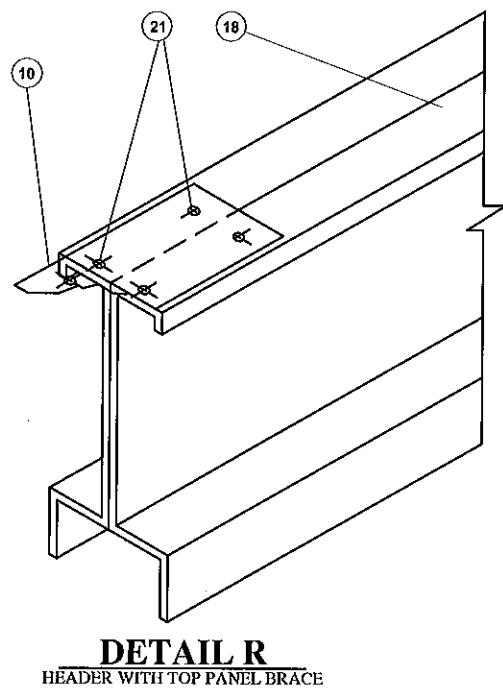
DETAIL N
EXPLODED VIEW OF SILL
(WINDOW AND DOOR HEADER SIMILAR)



DETAIL P
HEADER WITH COVER PLATE
AND WEB STIFFENER



DETAIL Q
HEADER WITH CORNER CAP



DETAIL R
HEADER WITH TOP PANEL BRACE

BILL OF MATERIALS

ITEM #	PART #	DESCRIPTION	MATERIAL	MANUFACTURER
1		WALL PANEL	20 GA. STEEL	SAFEGUARD
2		TOP TRACK	18 GA. STEEL	SAFEGUARD
3		BOTTOM TRACK	18 GA. STEEL	SAFEGUARD
4		JACK STUD	20 GA. STEEL	SAFEGUARD
5		GUSSETT PLATE	20 GA. STEEL	SAFEGUARD
6		OUTSIDE CORNER	20 GA. STEEL	SAFEGUARD
7		INSIDE CORNER	20 GA. STEEL	SAFEGUARD
8		SILL & HEADER TRACK	20 GA. STEEL	SAFEGUARD
9		2" X 2" X 3 3/4" CLIP ANGLE	20 GA. STEEL	SAFEGUARD
10		3 1/4" X 24" TOP PANEL BRACE (WALL PANEL CONNECTION)	18 GA. STEEL	SAFEGUARD
11		HOLD DOWN PLATE (OPTIONAL)	12 GA. STEEL	SAFEGUARD
12		CORNER CAP	20 GA. STEEL	SAFEGUARD
13		JAMB SUPPORT	20 GA. STEEL	SAFEGUARD
14		END PANEL	20 GA. STEEL	SAFEGUARD
15		SILL & HEADER STIFFENER	20 GA. STEEL	SAFEGUARD
16		WEB STIFFENER	18 GA. STEEL	SAFEGUARD
17		2" FLAT STRAP	20 GA. STEEL	SAFEGUARD
18		HEADER	20 GA. STEEL	SAFEGUARD
19		COVER PLATE	20 GA. STEEL	SAFEGUARD
20		#10 X 3/4" HEX HEAD SCREW	SEE TABLE 2, SHT. 1	---
21		#8 X 3/4" PPH SCREW	SEE TABLE 2, SHT. 1	---
22		ANCHOR BOLT - ENGINEERED BY OTHERS	---	---
23		FILLER PANEL	20 GA. STEEL	SAFEGUARD
24		1" EPS INSULATION PANEL	POLYSTYRENE	SAFEGUARD
25		#10 x 5/8" PPH SCREW	SEE TABLE 2, SHT. 1	---

SAFEGUARD BUILDING SYSTEMS
2960 WOODBRIDGE AVENUE
EDISON, NJ 08837

TITLE IMPACT FRO / MAR COMPOSITE STRUCTURAL WALL PANEL SYS
DETAILS & BILL OF MATERIALS

PREPARED BY:

DRAWN BY: SMC

DATE: 01/07/09

DRAWING NO: SSBP0001

REV: C

DESCRIPTION

DATE

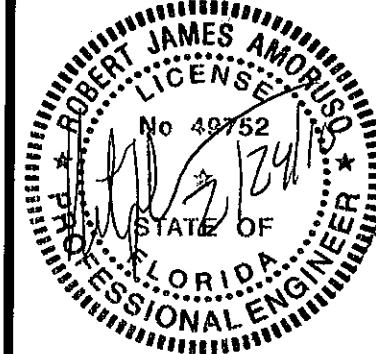
BY

PROJECT #307-1106.23

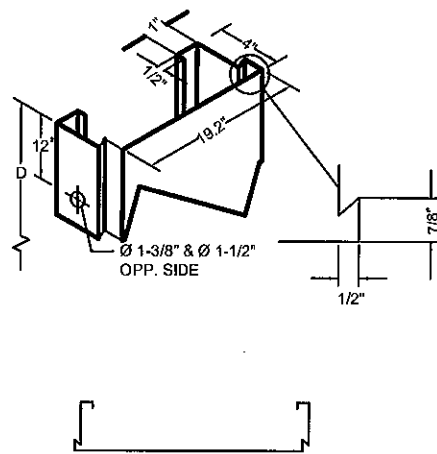
REV	DESCRIPTION	DATE	BY
C	PER MIAMI-DADE COMMENTS 02/17/10	02/23/10	SC
B	PER MIAMI-DADE COMMENTS 03/18/09	12/30/09	SC
A	PER MIAMI-DADE COMMENTS 1/21/09	02/16/09	SC

Approved as complying with the
Florida Building Code
Date 03/31/2010
NOA# 08-1219.02
Miami Dade Product Control
Division
By

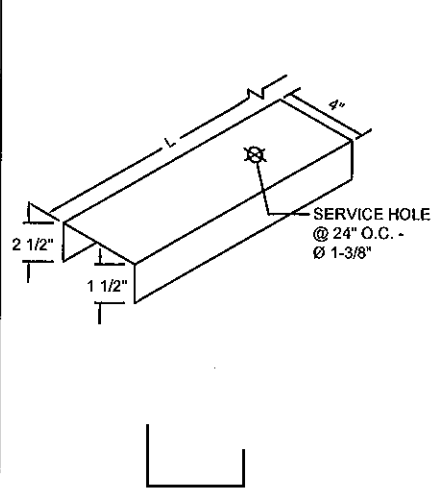
Robert J. Amoroso, P.E.
Florida P.E. No. 49752



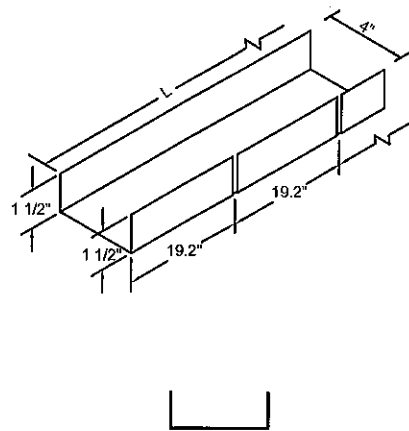
① PANEL



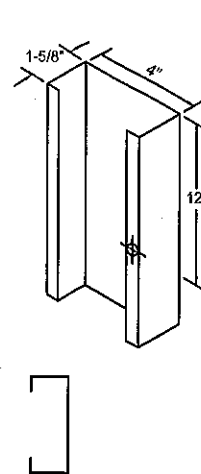
② TOP TRACK



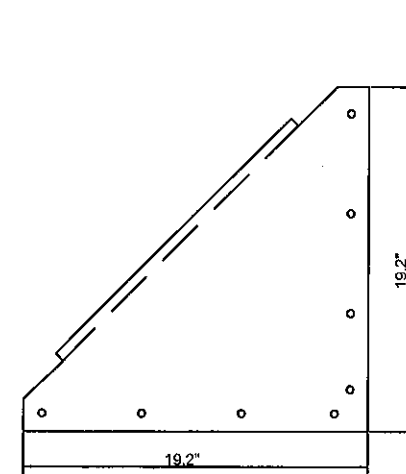
③ BOTTOM TRACK



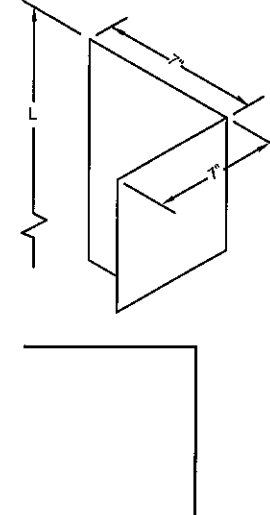
④ JACK STUD



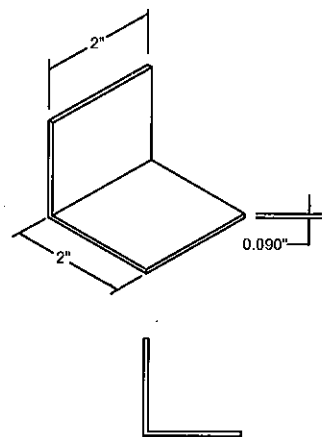
⑤ GUSSETT PLATE



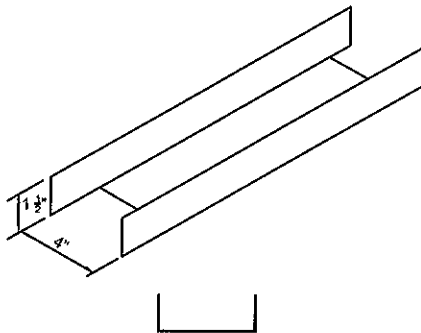
⑥ OUTSIDE CORNER



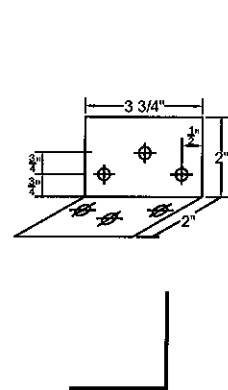
⑦ INSIDE CORNER



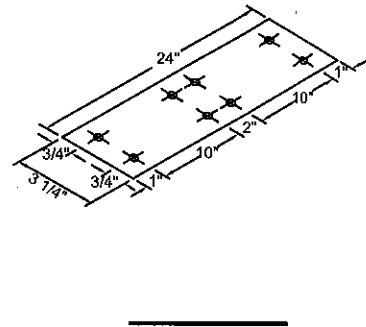
⑧ SILL & HEADER TRACK



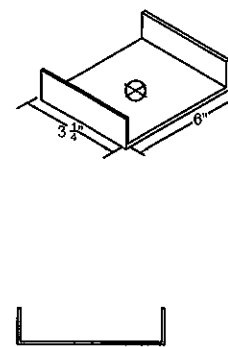
⑨ CLIP ANGLE



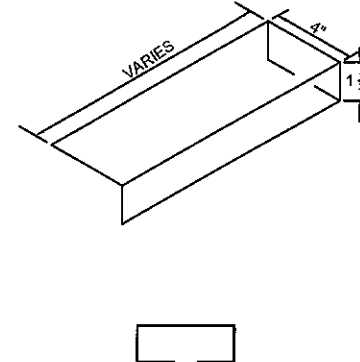
⑩ TOP PANEL BRACE



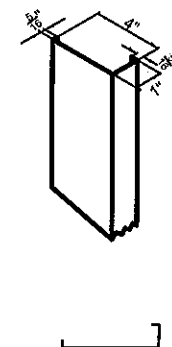
⑪ HOLD DOWN PLATE



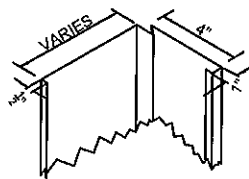
⑫ CORNER CAP



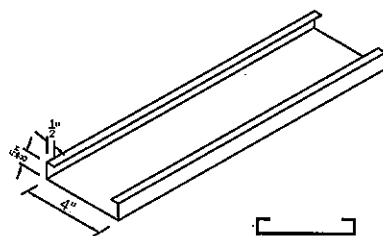
⑬ JAMB SUPPORT



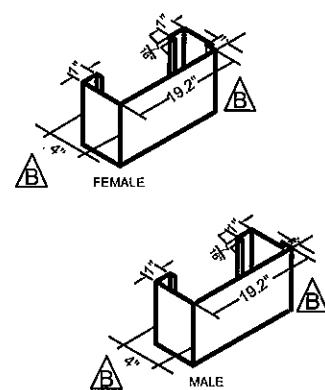
⑭ END PANEL



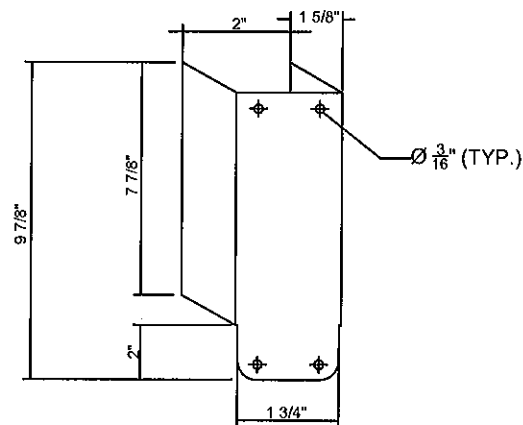
⑮ SILL & HEADER STIFFENER



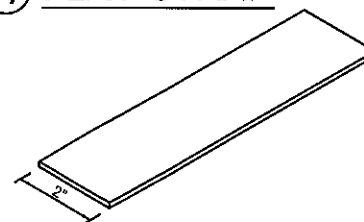
⑯ FILLER PANEL



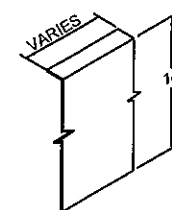
⑰ WEB STIFFENER



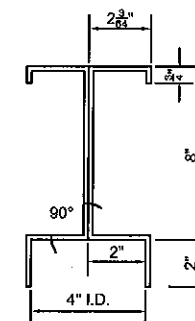
⑱ FLAT STRAP



⑲ COVER PLATE



⑳ HEADER



PROJECT #307-1106.23

SAFEGUARD BUILDING SYSTEMS
2960 WOODBRIDGE AVENUE
EDISON, NJ 08837

TITLE: IMPACT PRO / MAR COMPOSITE STRUCTURAL WALL PANEL SYS
COMPONENTS

PREPARED BY: SMC
DATE: 01/07/09
SCALE: N.T.S.
DRAWING NO: SSBP0001
REV: B
SHEET: 7 OF 7

Approved as complying with the
Florida Building Code
Date 03/31/2010
NOA 03-1219.02
Miami Dade Product Control
Division
By [Signature]

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

